IE Operating Instruction Manual

Feb. 4. 2013

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1. Brief introduction of IE browsing operation

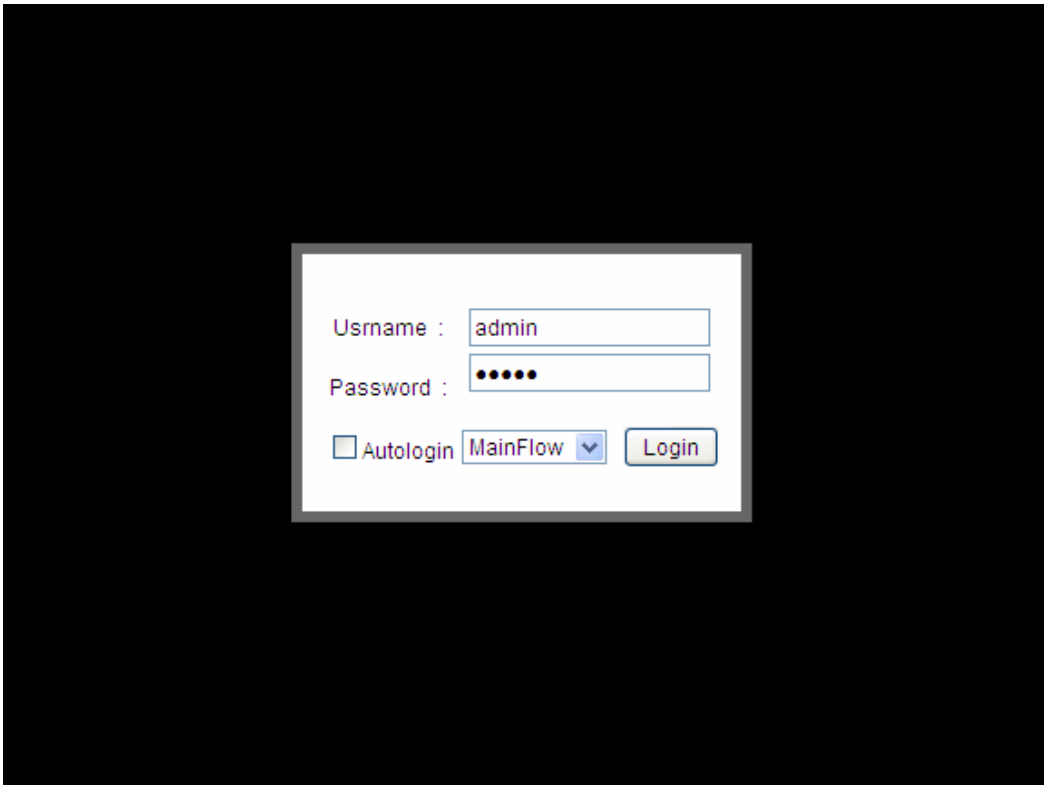
As Internet Explorer is a webpage explorer of the Microsoft Windows Operating System, and our video camera is internally provided with the WEB service, you can use IE (Internet Explorer) to visit the video camera, preview images in the video camera and set parameters of the video camera.

1.1. Installation of plug-ins and login

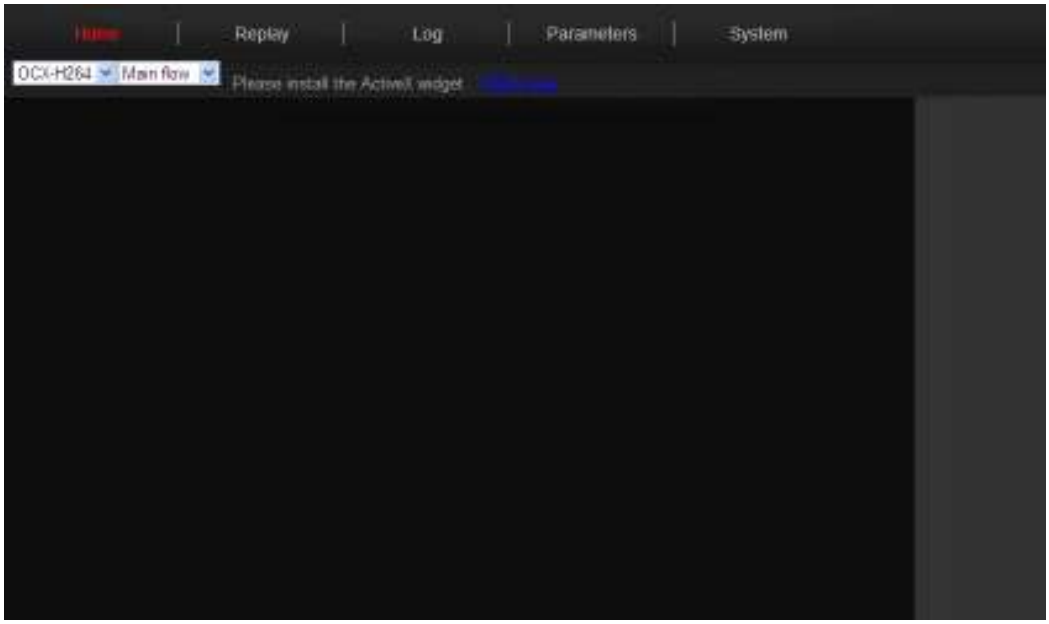
When the IE is used for the access to the video camera for the first time, images of the video camera can be previewed as long as plug-ins are installed; and after the login of the IE, the video camera will prompt you to install OCX component automatically. The installation steps are as follows:

(1) Run IE and input the video camera's IP address and HTTP port as shown in the following figure.

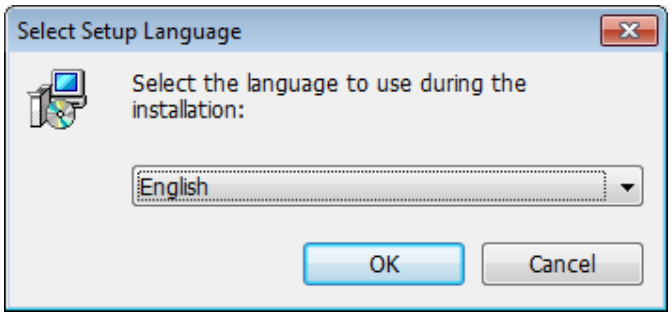
(2) After the successful access to the video camera, a login page will appear, and please input a username and a password (Both the default username and password are admin).



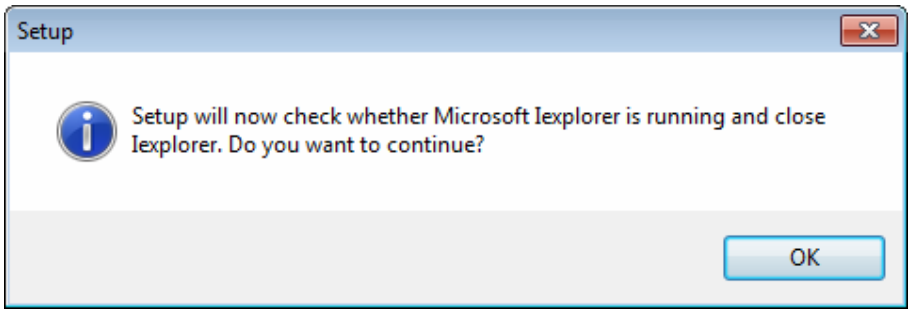
(3) after the successful login, a prompt "Please install ActiveX control RSAV.EXE" will be popped out at the left upside of the page; and you can click the link "RSAV.EXE" to run or download the RSAV control.



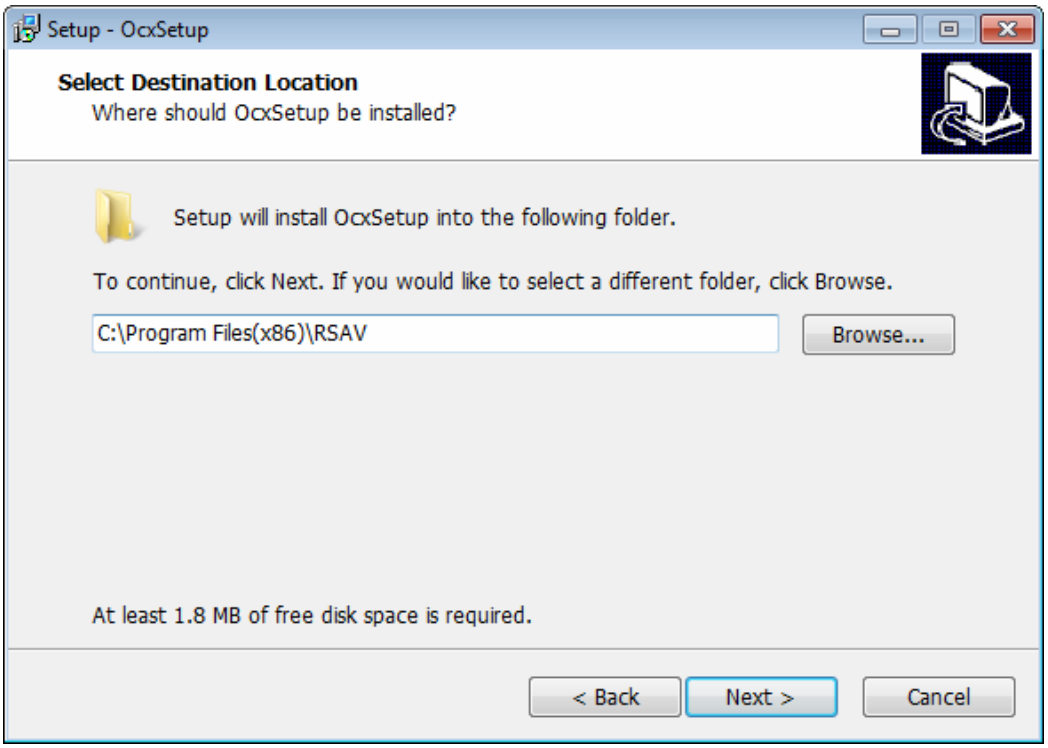
(4) Install the RSAV control and please select the language to use during the installation and then click "Next".



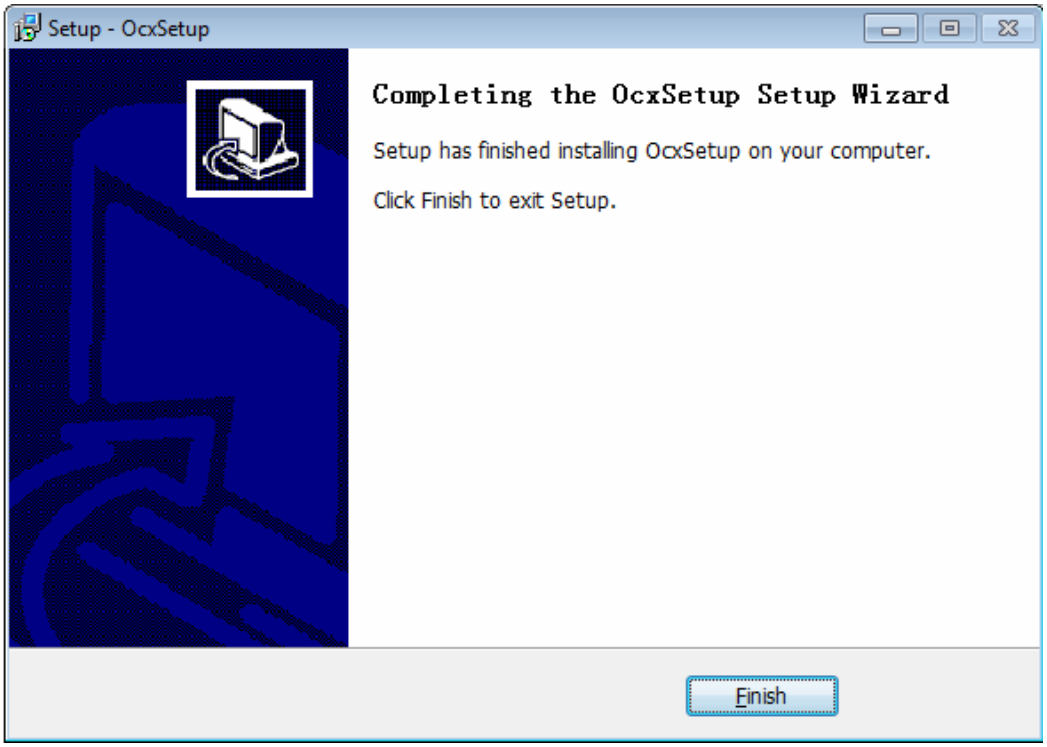
A prompt that it is necessary to close the IE is popped out and please click "Ok" for continuing the installation.



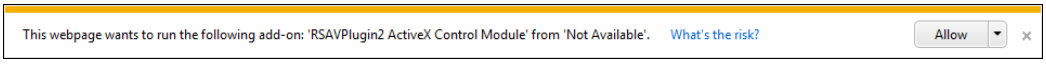
Skip a welcome interface and select a control installation path; the control must be installed in a system disk; and generally speaking, the installation path is "C:\Program Files\RSAV"; the installation path of the 64-bit Operating System is "C:\Program Files（X86）\RSAV"; and click "Next"for continuing the installation.


Setup - OcxSetup
Select Destination Location
Where should OcxSetup be installed?
Setup will install OcxSetup into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files(x86)\RSAV
Browse...
At least 1.8 MB of free disk space is required.
< Back
Next >
Cancel

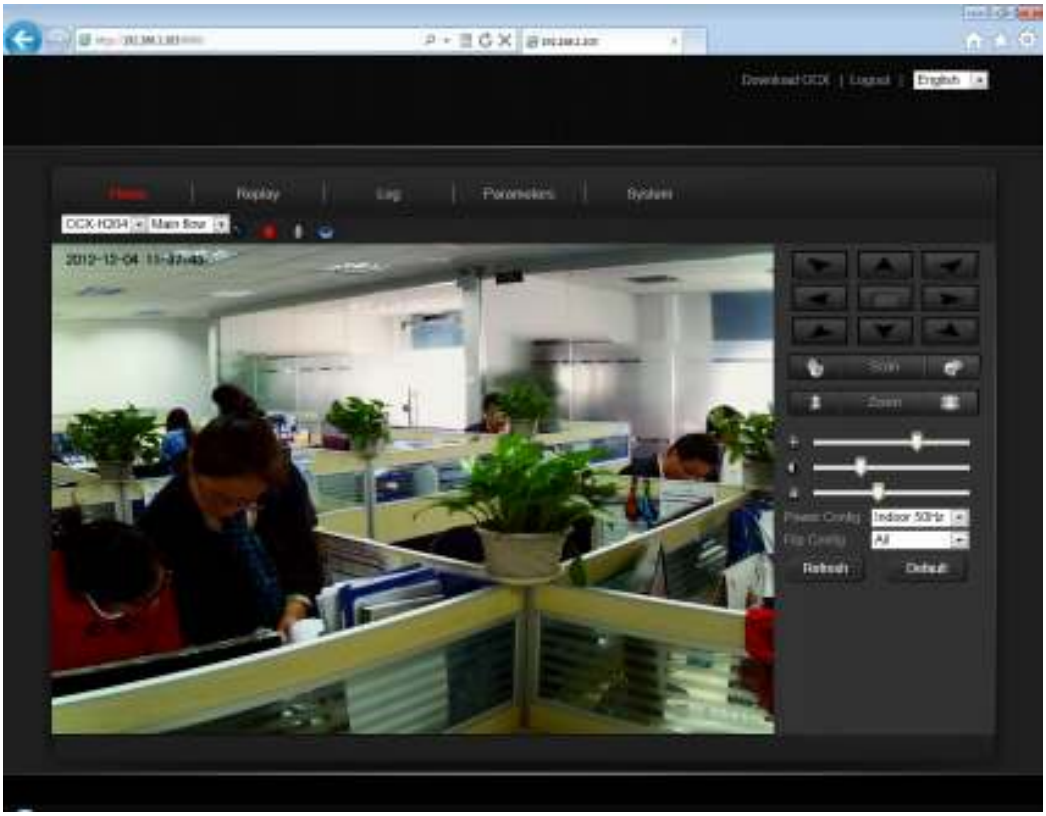
Click “install” to start installing the control; and after the successful installation of the control, click “Finish” to end the installation.


Setup - OcxSetup
Completing the OcxSetup Setup Wizard
Setup has finished installing OcxSetup on your computer.
Click Finish to exit Setup.
Finish

(5) After the installation of the control and when the IE is rerun to access to the video camera, a prompt indicating that whether the justly installed control is allowed to used by the webpage will be popped out, and the webpage will be refreshed and loaded the control after “Allow” is clicked.

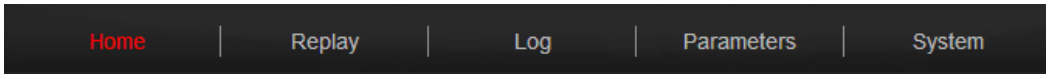

This webpage wants to run the following add-on: 'RSAVPlugin2 ActiveX Control Module' from 'Not Available'.
What's the risk?
Allow

(6) After the control is loaded, please log in the video camera again (if you do not want to log in repeatedly, you can select “Auto login”); and images of the video camera are displayed in the page.

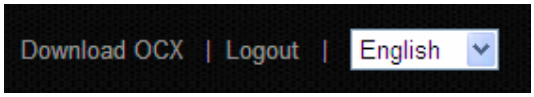


2. IE menu introduction

The IE interface of the video camera is mainly composed of several big functional classifications, respectively including a home, replay, log, parameter setting, and system setting. Please click functional classifications to enter into corresponding functional page

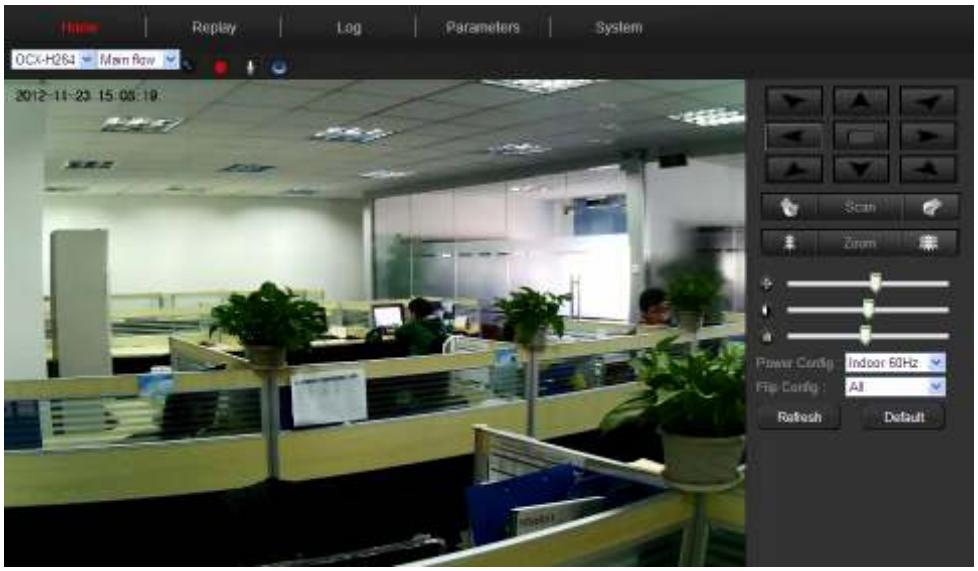


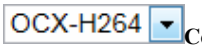
There are three operational options at the right upside of the IP operating interface; and click “download plug-in” to download the OCX control, click “logout” to log out and turn back to the login page and change the language option to change the display language of the IE interface.



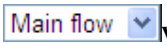
2.1 Home

The Home is opened in a default mode after the login of the video camera; images of the video camera are displayed in the middle of the Home; functional buttons are located above the images; an operating panel is located at the right side of the image; and the detailed functions are as follows:





Control selection menu: by clicking the change option, you can select two kinds of controls, including “OCX-H264” and "VLC-H264”. OCX only supports Microsoft Internet Explorer (IE) while VLC applies to most browsers including Firefox, Google and so on. After completion of the control installation, the control preview image can be called. When the VLC control is installed, please refer to the document “How to Use Firebox and Google Chrome to Access to Camera”.



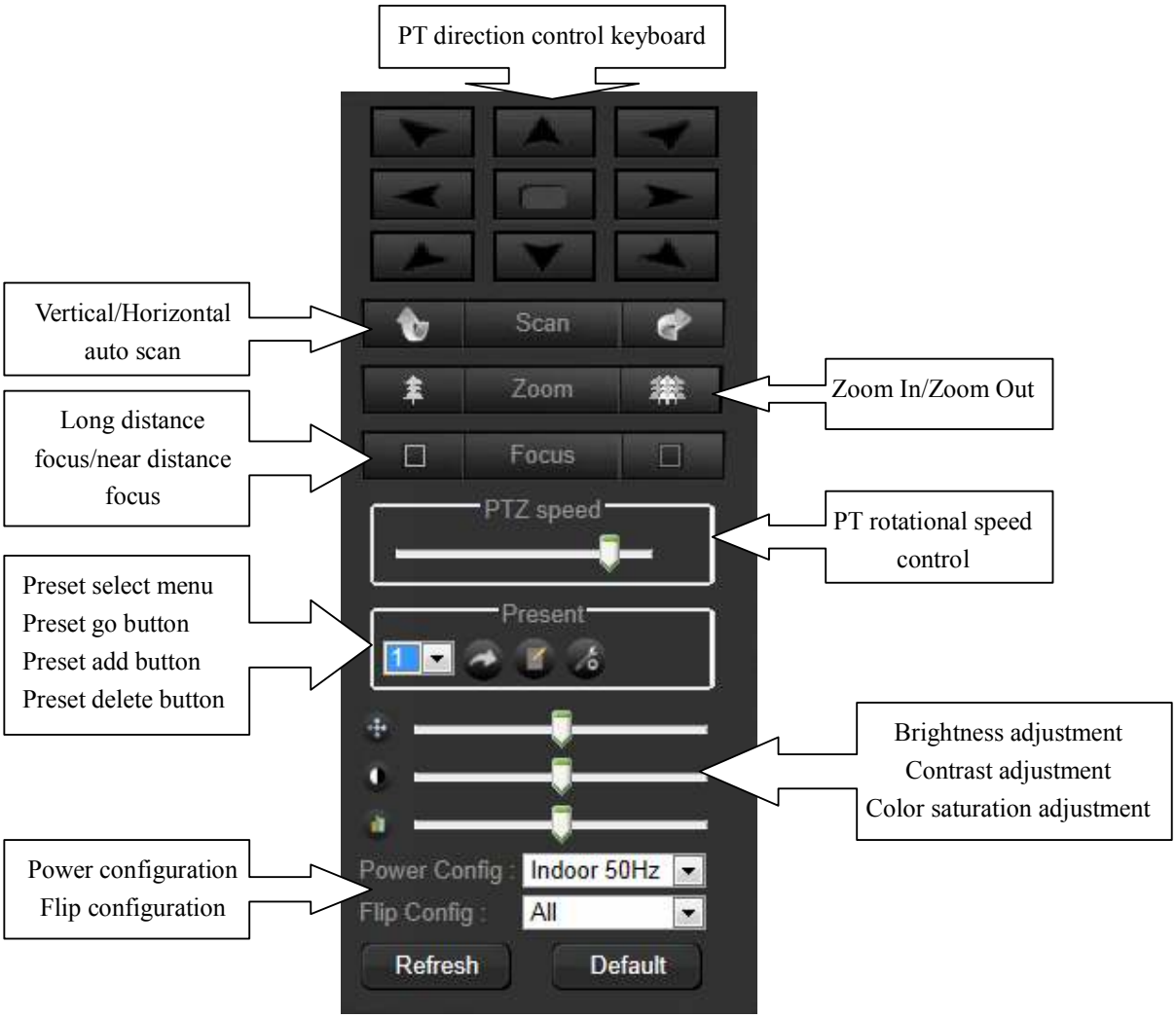
Video flow selection menu: through this option, you can select to preview the main flow or the secondary flow of the video camera.

Snap-shooting button: by clicking the button, you can snap-shoot the current picture and store the picture in a computer in a BMP format; and the default storage path is “C:\capture”.

Recording button: video recording is started after clicking the button; red points will occur in a previewed image to show that the recording is in process; video recording is ended by clicking the button again; the video is stored in the computer in an AVI format; the default storage path is “C:\record”; the recorded document not only can be played by a player which supports H/.264 code, but also can be played by the AviReplayer of the video camera.

Talkback button: by clicking the button, sound from a computer end can be sent to the video camera; talkback icon will occur in the previewed image when the talkback is turned on; the talkback is turned off by clicking the button again; and if you want to understand the detailed use method, please read document “How to Use Bidirectional Voice”.

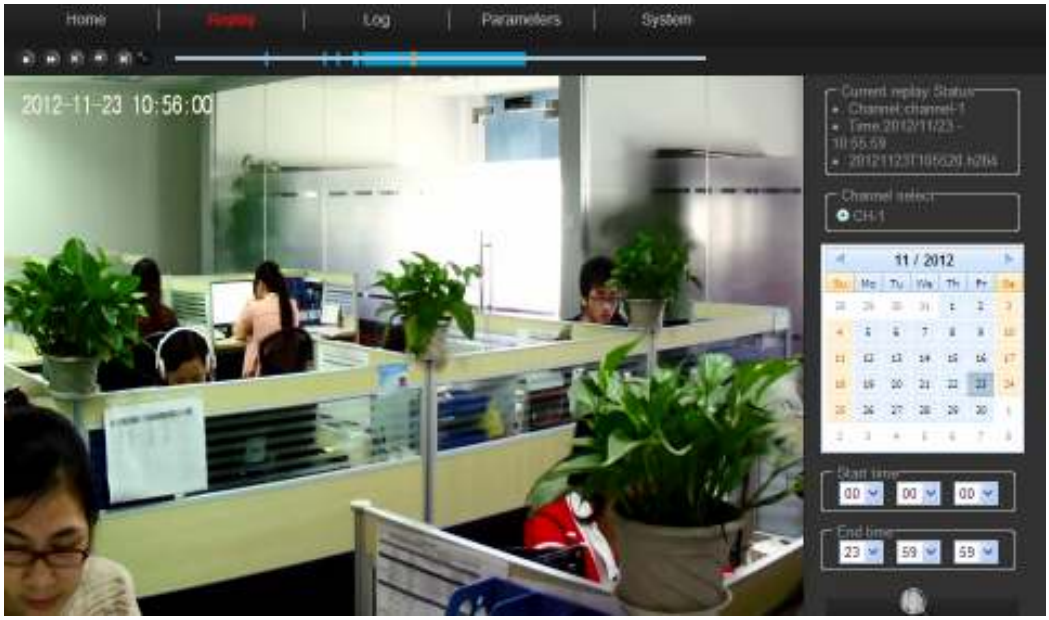
Voice button: by clicking the voice button, sound of accessories of the video camera can be monitored; a voice icon will occur in the previewed image when the voice button is turned on; and the voice is turned off by clicking the voice button again; and if you want to know the detailed use method, please read the document "How to Use Bidirectional Voice".



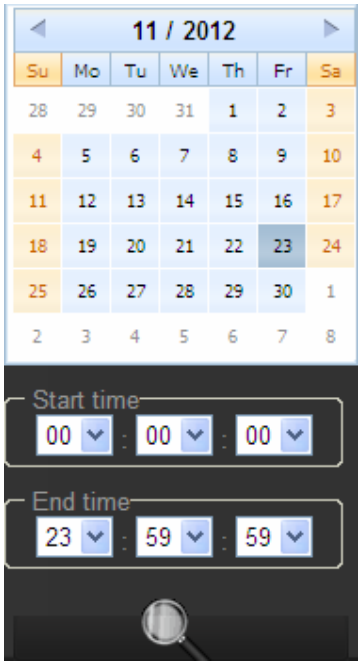
Note: some functions in the control panel for high-speed ball proprietary function, if not high-speed ball camera will not display these features.

2.2 Replay

The replay interface is only used for SD card of the video camera; when the SD card inside the video camera has video records, you can play the videos in the replay interface to view the records; and the operating method is as follows:



You can select the time scope which you want to inquire in a time selection panel at the left side of the replay interface and then click the search icon.



After the search, blue region will occur in the time strip above to show videos exist in the days; and the videos can be replayed by dragging the time label to the blue region.

Functions of play buttons:

End replay

Advance a minute

Advance ten minutes

Retreat a minute

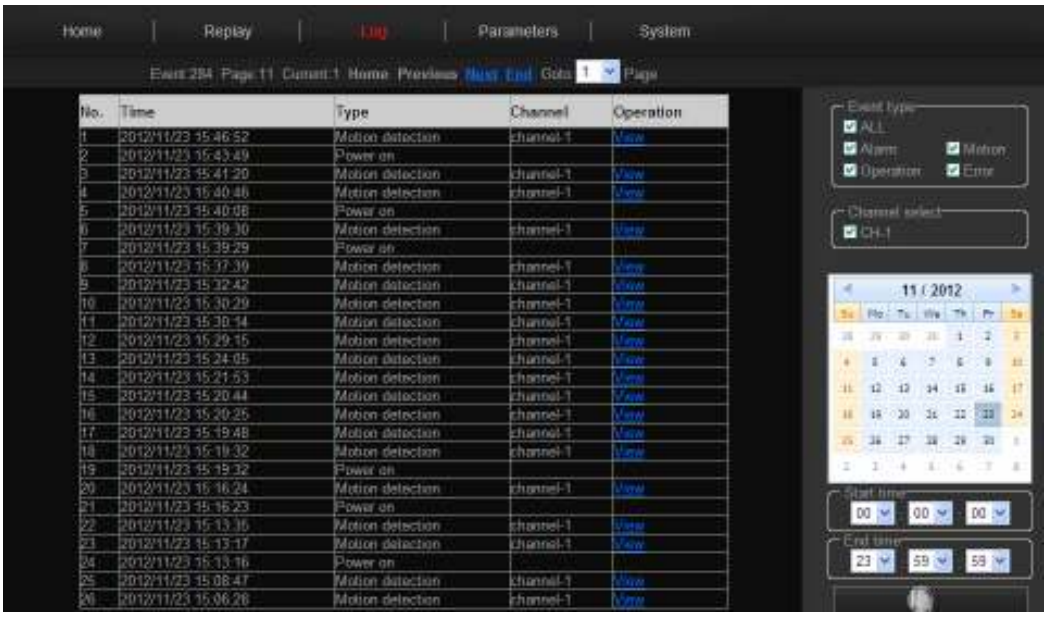
Retreat ten minutes

Snap-shooting

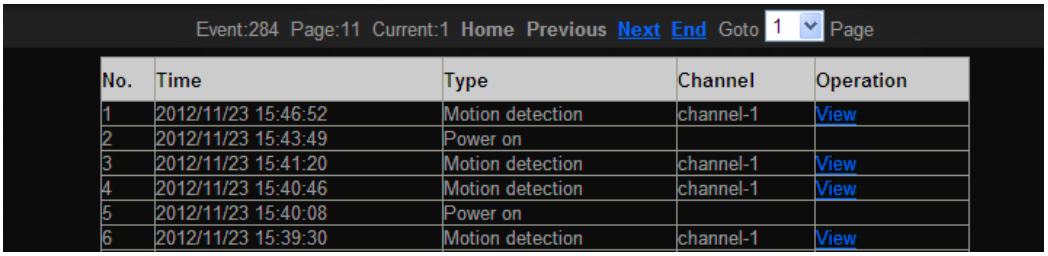
Prompt: For the use method of the SD card, please read document “How to Use SD Card”.

2.3 Log

The Log which records operating history and motion detection alarm events of the video camera is stored in the SD card of the video camera; and through the log page, you can view these records; and the use method is as follows:


Home
Replay
Log
Parameters
System
Event:284 Page:11 Current:1 Home Previous Next End Goto 1 Page
No. Time Type Channel Operation
1 2012/11/23 15:46:52 Motion detection channel-1 View
2 2012/11/23 15:43:49 Power on
3 2012/11/23 15:41:20 Motion detection channel-1 View
4 2012/11/23 15:40:46 Motion detection channel-1 View
5 2012/11/23 15:40:08 Power on
6 2012/11/23 15:39:30 Motion detection channel-1 View
7 2012/11/23 15:39:29 Power on
8 2012/11/23 15:37:30 Motion detection channel-1 View
9 2012/11/23 15:32:42 Motion detection channel-1 View
10 2012/11/23 15:30:29 Motion detection channel-1 View
11 2012/11/23 15:30:14 Motion detection channel-1 View
12 2012/11/23 15:29:15 Motion detection channel-1 View
13 2012/11/23 15:24:05 Motion detection channel-1 View
14 2012/11/23 15:21:53 Motion detection channel-1 View
15 2012/11/23 15:20:44 Motion detection channel-1 View
16 2012/11/23 15:20:25 Motion detection channel-1 View
17 2012/11/23 15:19:48 Motion detection channel-1 View
18 2012/11/23 15:19:32 Motion detection channel-1 View
19 2012/11/23 15:19:32 Power on
20 2012/11/23 15:16:24 Motion detection channel-1 View
21 2012/11/23 15:16:23 Power on
22 2012/11/23 15:13:16 Motion detection channel-1 View
23 2012/11/23 15:13:17 Motion detection channel-1 View
24 2012/11/23 15:13:16 Power on
25 2012/11/23 15:08:47 Motion detection channel-1 View
26 2012/11/23 15:06:26 Motion detection channel-1 View
Event type
ALL
Alarm
Motion
Operation
Error
Channel select
CH-1
11 / 2012
Start time
00 00 00
End time
23 59 59

You can select a time scope which you want to inquire in a time selection panel at the left side of the replay interface and then click the search icon; and after the search, you can see the log records in the middle of the page.


Event:284 Page:11 Current:1 Home Previous Next End Goto 1 Page
No. Time Type Channel Operation
1 2012/11/23 15:46:52 Motion detection channel-1 View
2 2012/11/23 15:43:49 Power on
3 2012/11/23 15:41:20 Motion detection channel-1 View
4 2012/11/23 15:40:46 Motion detection channel-1 View
5 2012/11/23 15:40:08 Power on
6 2012/11/23 15:39:30 Motion detection channel-1 View

You can the time records of the video camera through the log; if meeting with motion detection alarm, you can click “View” to play the alarming video at that moment.

2.4 Parameter setting

You can set the network setting, the video parameters, the dynamic domain name & UPnP, the video cover, the motion detection, the CMOS parameters, the OSD parameters and the alarm setting of the video camera in the video parameter setting page.

2.4.1 Network setting

Network camera with WIFI function has two IP addresses, a wired connection using LAN IP address, a wireless connection using WIFI IP address, usually the camera is connected via a LAN, you can unplug the cable to use WIFI when the WIFI is set up.

LAN setting page

Network mode: You can switch the setting pages of LAN and WIFI; a fixed IP address can be set for the video camera by selecting “Fixed IP”; if you have a DHCP server, you can select “DHCP” to let the DHCP server allocate an IP address to the video camera.

IP Address: LAN IP address of the camera is displayed.

Subnet Mask: Displays the subnet mask of the camera.

Gateway: the gateway is usually the IP address of the Internet equipment which you access to Internet,such as a router; and setting of correct gateway is necessary when the video camera uses the DDNS, P2P and the like functions.

Domain name resolution address: Local domain name resolution address,you can know the local this information from your network provider,setting of correct domain name resolution address is necessary when the

video camera uses the DDNS, P2P and the like functions.

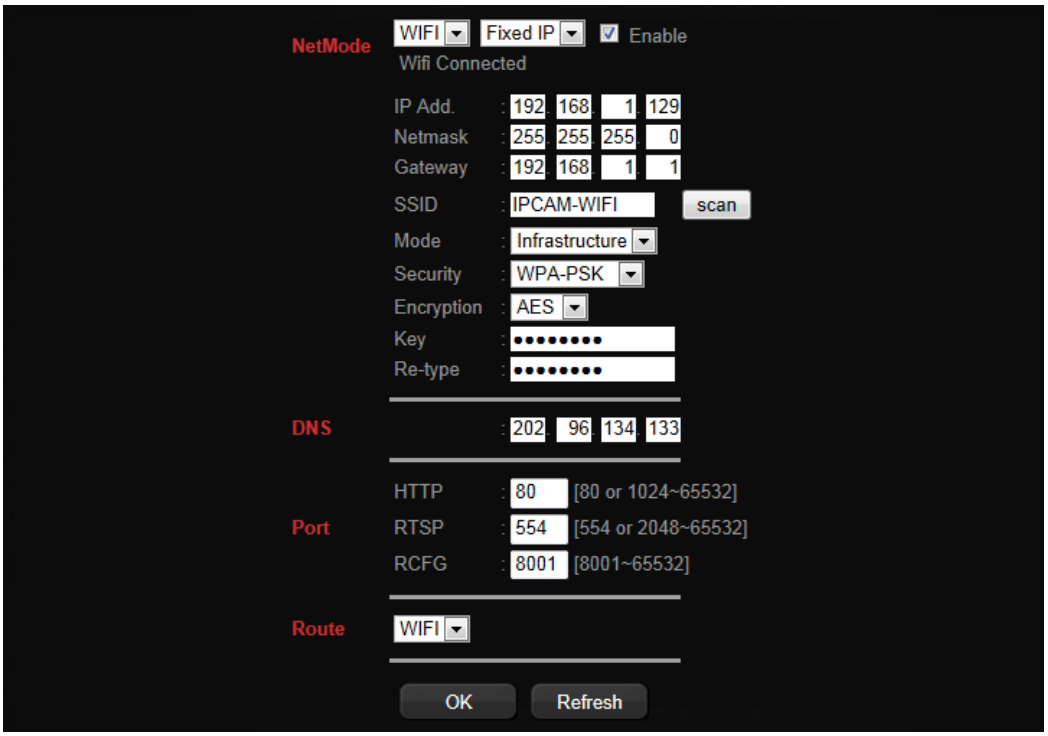
PORT:

HTTP: the HTTP port of the video camera is usually used for transmitting data of the HTTP protocol, such as WEB application, CGI configuration and so on.

RTSP: the RTSP port of the video camera is usually used for transmitting data of the RTSP protocol, such as video data and audio data.

RCFG: the RCFG port of the video camera is a port for transmitting data of private protocol, such as connecting NVR and VMS software.

WIFI setting page



Network mode: You can switch the setting pages of LAN and WIFI; a fixed IP address can be set for the video camera by selecting “Fixed IP”; if you have a DHCP server, you can select “DHCP” to let the DHCP server allocate an IP address to the video camera.

IP Address: LAN IP address of the camera is displayed.

Subnet Mask: Displays the subnet mask of the camera.

Gateway: the gateway is usually the IP address of the Internet equipment which you access to Internet,such as a router; and setting of correct gateway is necessary when the video camera uses the DDNS, P2P and the like functions.

SSID: Displays the SSID of the wireless network you want to connect, can point the "scan" on the right to enter the wireless network selection page.

Mode: Displays whether the wireless network is encrypted, generally be setted automatically based on the wireless network.

Security: Select the type of wireless network encryption, generally be setted automatically based on the wireless network.

Encryption: select the encryption algorithm of the wireless network, generally be setted automatically based

on the wireless network.

KEY: enter the password for the wireless network.

Re-type: confirm the password for the wireless network

DNS: Local domain name resolution address,you can know the local this information from your network provider,setting of correct domain name resolution address is necessary when the video camera uses the DDNS, P2P and the like functions.

PORT:

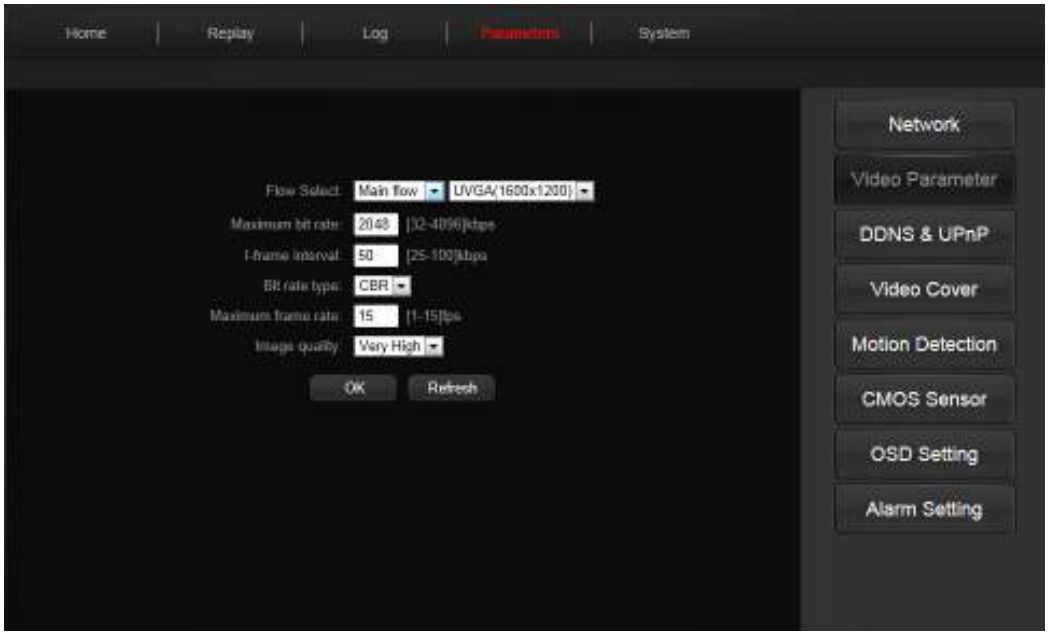
HTTP: the HTTP port of the video camera is usually used for transmitting data of the HTTP protocol, such as WEB application, CGI configuration and so on.

RTSP: the RTSP port of the video camera is usually used for transmitting data of the RTSP protocol, such as video data and audio data.

RCFG: the RCFG port of the video camera is a port for transmitting data of private protocol, such as connecting NVR and VMS software.

2.4.2 Video parameters

In the video parameter page, you can set the image video flow of the video camera, so that the video camera can be applied better in different network environment. For example, you can reduce the frame number at a low transmission speed to obtain a high-quality image or reduce the image quality to obtain a smooth picture; the following figure is the video parameter setting recommended under a normal condition.



Video flow selection: you can switch the setting pages of the main flow and the secondary flow and setting the resolutions of the main flow and the secondary flow.

Maximum code rate: the transmission maximum value of the video flow data, such as 2048KBps is equal to the size of the 2 MBps image data transmitted per each second and is equal to the maximum value of storing the 256 Kb data document in a computer per each minute; and it is calculated that the maximum video recording volume of a video camera at a code rate of 2048 KBps for a hour is 0.9 Gb.

I frame interval: setting the key frame interval; the smaller the interval is, the faster refreshing of the image

is; and the code rate will also be increased.

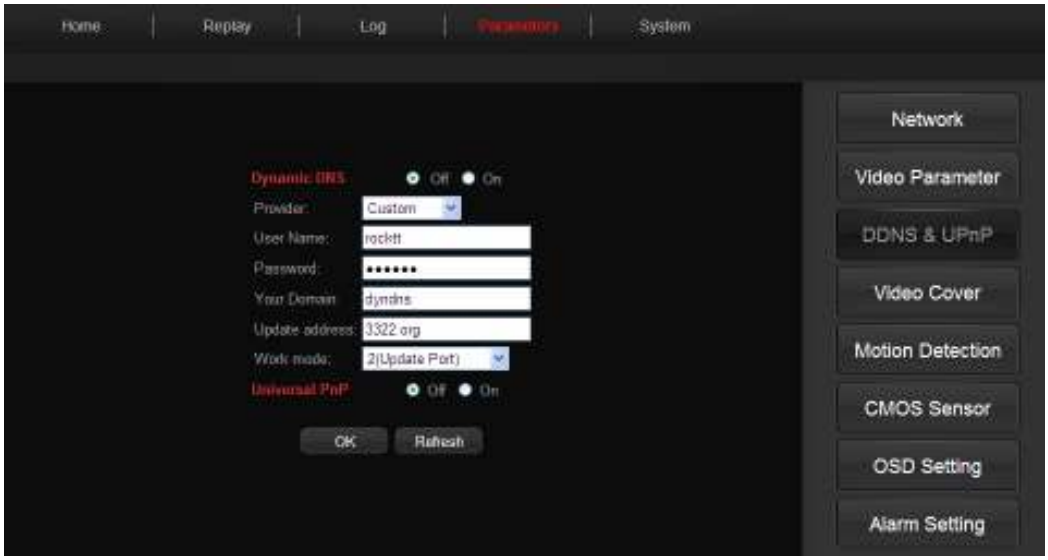
Code type: the fixed code rate means that the code rate is fixed; the variable code rate means that the variable code rate is changed according to the size of the image data of the video camera; that is to say, the code rate will be reduced in a static environment, but the code rate will be increased in a dynamic environment.

Frame number: set the frame number in each second of the image; and 15 frames means 15 images exist in each second.

Picture quality: the setting of the image quality will affect the size of the code rate.

2.4.3 Dynamic domain name & UPnP

You can bind the domain name to the video camera and start up the UPnP service of the video camera in the dynamic domain name & UPnP.



Dynamic domain name: click and select “On” to make your bound domain name to take effect; select a corresponding domain name server provider (at present, only dyndns and 3322 domain name are supported, and there is no support for free domain names as they are unsteady) and input the username, the password and the attributive domain parameter; and it is unnecessary to input the “Update address” and the “Work mode” as both of them are necessary for the free domain name provided by the manufacturer.

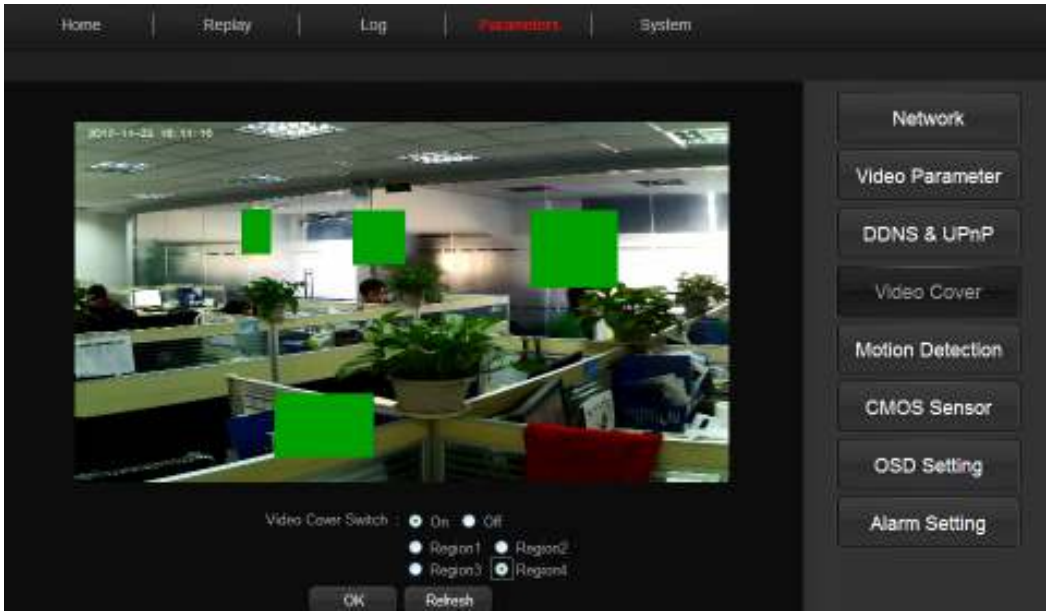
Universal PnP: it is necessary to set port for forwarding on the router to enable the external port to point towards the video camera when the dynamic domain name is used; if your router has started the UPNP service, you can start the Universal PNP function to enable the router to forward the data to the ports automatically.

Prompt: if you want to know the detailed use method, please read document “How to Access to Video Camera through Domain Name” in a “Frequently Asked Questions” file.

2.4.4 Video cover

Through the video cover, a user can cover and shield the private region in the video. The video camera at

most can cover and shield four regions in the video image.



2.4.5 Motion detection

The motion detection can detect whether an object in the monitored environment is moved; the motion detection alarm inside the video camera can be started with the help of the function; and the motion detection functions of the NVR and CMS are also linked with the motion detection of the video camera, for example, if the NVR has started the motion detection, the motion detection of the video camera is firstly triggered, then the NVR is linked and then the NVR triggers the motion detection.

Motion detection switch: an option for whether to turn on the motion detection; the default state is that the motion detection is turned on in the whole-screen region (except for the time display region as wrong report may

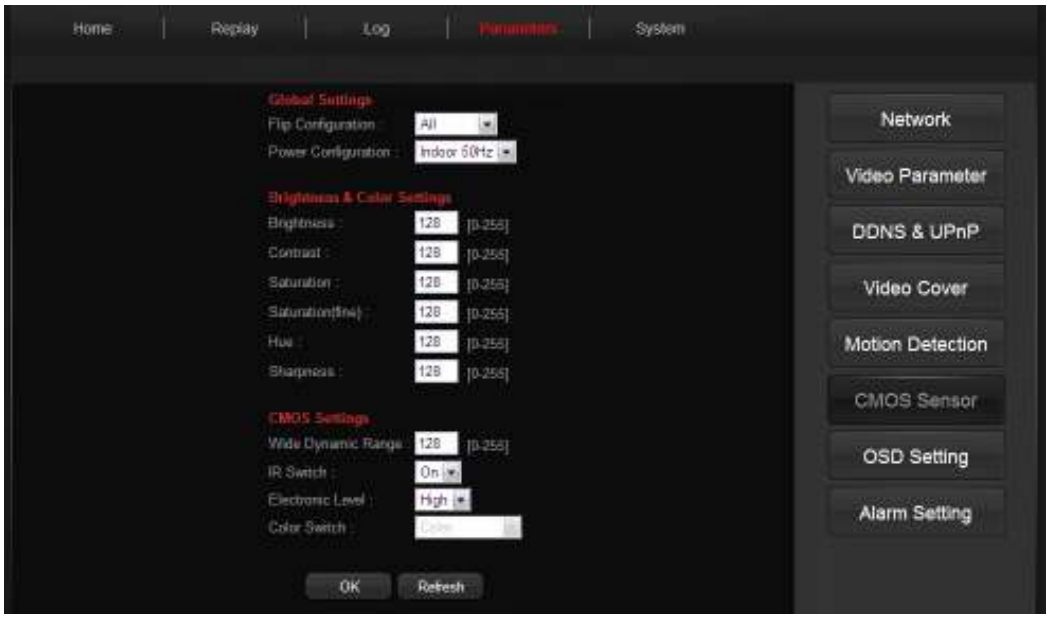
be resulted); and you can set the red region in the image to set the motion detection region.

Motion detection level: the sensitivity of the motion detection; the smaller the value is, the more sensitive the motion detection is.

Motion detection interval: triggering interval time of the movable detection; and the shorter the interval is, the smaller the value is.

2.4.6 CMOS parameter

The COMS includes global setting, brightness & color setting and COMS parameter setting. As shown in the figure below:



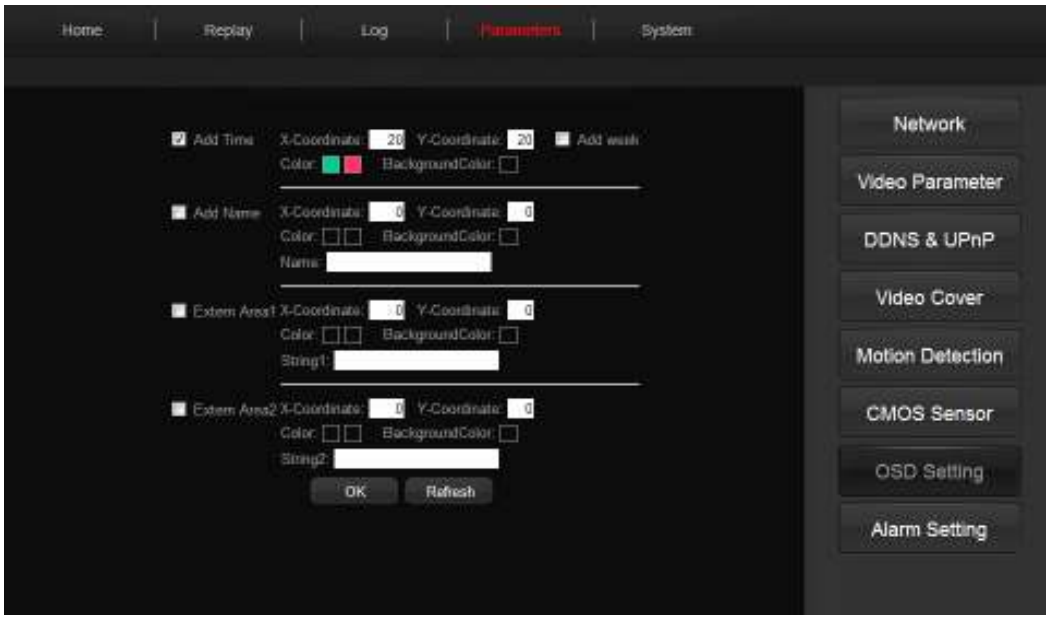
The global setting: the flip configuration is mainly to adjust the direction of the previewed picture; you can set the up-down flip, left-right flip and global flip according to a need; and 50, 60 Hz power configuration can be adopted to match with the power type used locally.

Brightness & color parameter setting: adjust picture quality of the previewed picture of the video camera.

CMOS setting: fine tune the wide dynamic parameters of the video camera (if the video camera carries with the wide dynamic function); and as the adjustment of the infrared switch and the electric level of the switch is configured according to the hardware of the video camera, please do not change.

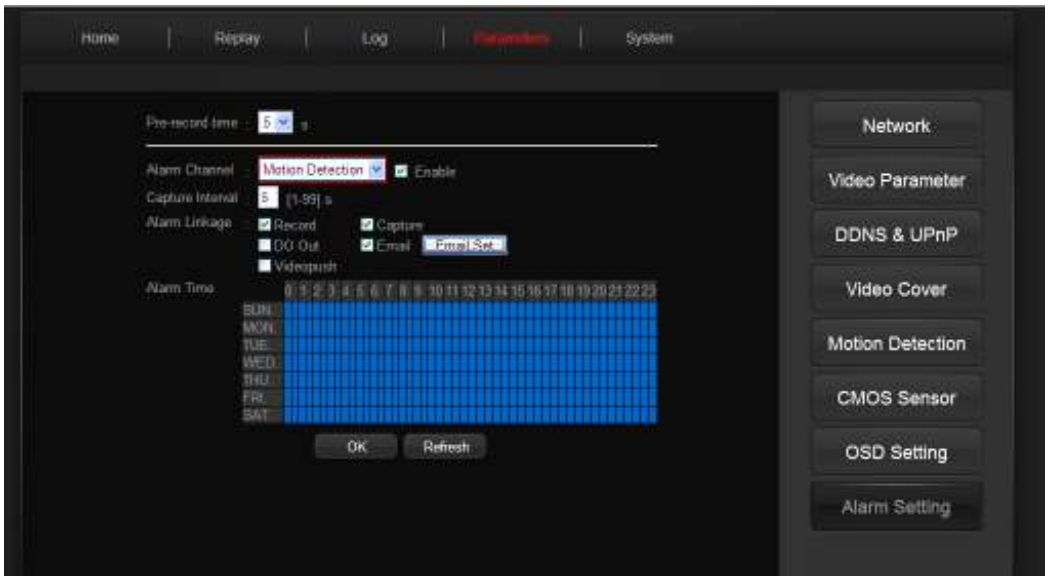
2.4.7 OSD parameters

In the OSD page, a user can set the time, the name and the user-defined character displayed on the picture; and you can set the display position, the alternately displayed color and the background color.



2.4.8 Alarm setting

In the alarm setting page, you can set the alarm channel mode, the alarm motion such as snap-shooting and video recording and the alarm time.



Pre-recording time: pre-record the video before several seconds of the alarm.

Alarm channel: there are three modes for selection, respectively including time record, alarm and motion detection; and you can select the enabling option to enable the corresponding mode to take effect.

Time record: time record mode for acting within a set time.

Alarm: external alarm input mode; when the external alarm devices such as a smoke sensor and an infrared probe input an alarm signal to the video camera, the video camera will take action.

Motion detection: motion detection mode inside the video camera; and when the motion detection mode is

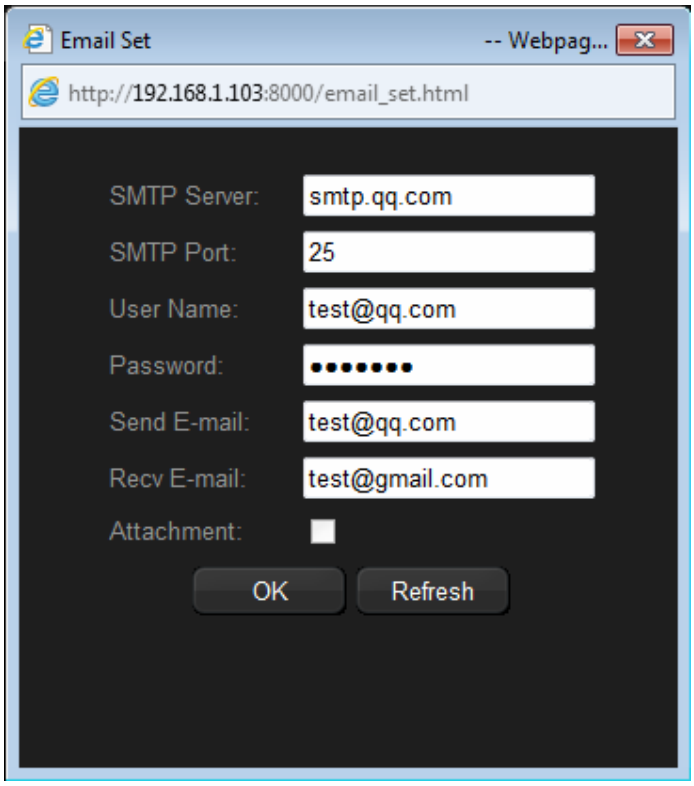
triggered, the video camera will take action.

Alarm linkage: set the action after the alarm is triggered.

Video recording and snap-shooting: perform video-recording and snap-shooting and store the video in the SD card; and you can set the snap-shooting interval in the "Snap-shooting interval" option; and the video and the picture cannot be stored if the video camera does not carry with the SD card.

Do out: an alarm signal will be output.

Email: an email will e sent to an appointed email box; the setting is as shown in the figure below; if you do not know the SMTP server and the SMTP port, you can inquire your email server provider; and the snap-shot pictures can be attached in the email by selecting the accessory.



Vediopush: a video will be sent to a mobile phone client.

Enabling time: you can set the time section of the efficient alarm; a week is regarded as a period; and each division is regarded as half an hour.

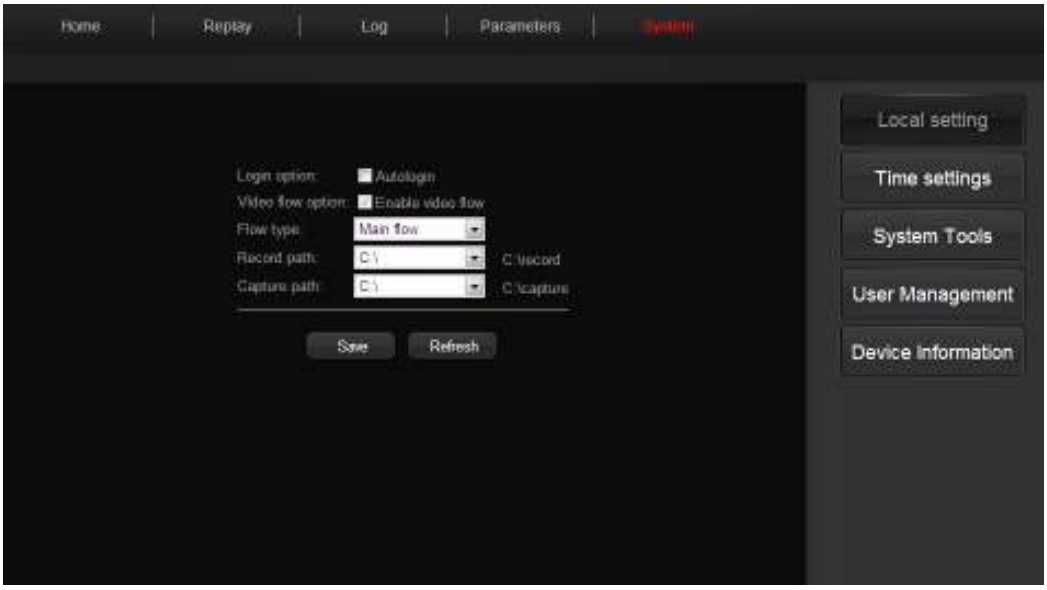
Prompt: you can read the document "How to use the SD card" in the "Frequently Asked Questions" file to understand how to set the alarm setting.

2.5 System setting

The system setting includes local setting, time setting, system tools, user management and device information.

2.5.1 Local setting

In the local setting page, you can set some operation parameters in the Home.



Login option: you can log in automatically by skipping the login page when the video camera is logged in after the login option is selected.

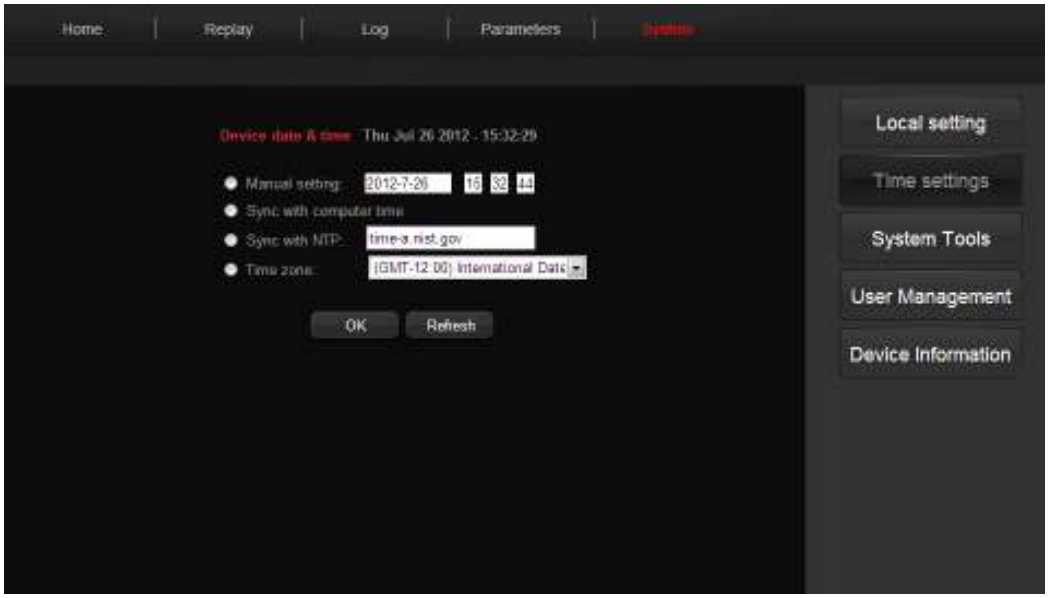
Video flow type: amend the video flow type of the preview image in the Home and main flow and secondary flow can be selected.

Video file storage path: storage path of the video file when a video is recorded in the Home.

Snap-shooting picture storage video: storage path of snap-shot picture when pictures are snap-shot in the Home.

2.5.2 Time setting

In the time setting page, you can adjust the time manually, synchronize with the computer time and the NTP, select the time zone and so on; a user can select according to the need thereof; and please set a correct time zone, otherwise, the P2P client may display a wrong time.



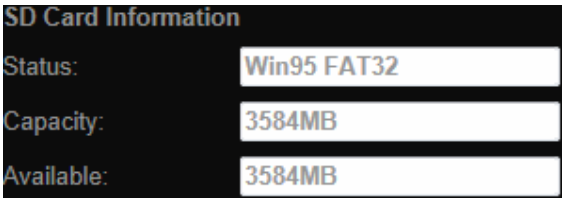
2.5.3 System tools

The system tools include Reboot, Factory default, SD Format, View Picture on SD card, configuration import and export, System update, View Video Files on SD-card and so on.

Reboot: reboot the video camera; and the reboot time of the video camera is about 1 min.

Factory default: recover the default setting of the video camera; the IP address is recovered as 192.168.1.128; and after the factory default, you may need to re-configure some parameters of the video camera.

SD format: it is necessary to format the SD card when the SD card is used for the first time; the formatting of the SD card needs a long time, so please do not cut off the electricity of the video camera during the SD card formatting process, otherwise, the SD card may be damaged; after the SD is formatted, you can see the rest volume of the SD card in the device information page; and for the detailed use method, you can read the document “How to use the SD card” in the “Frequently Asked Questions” file.

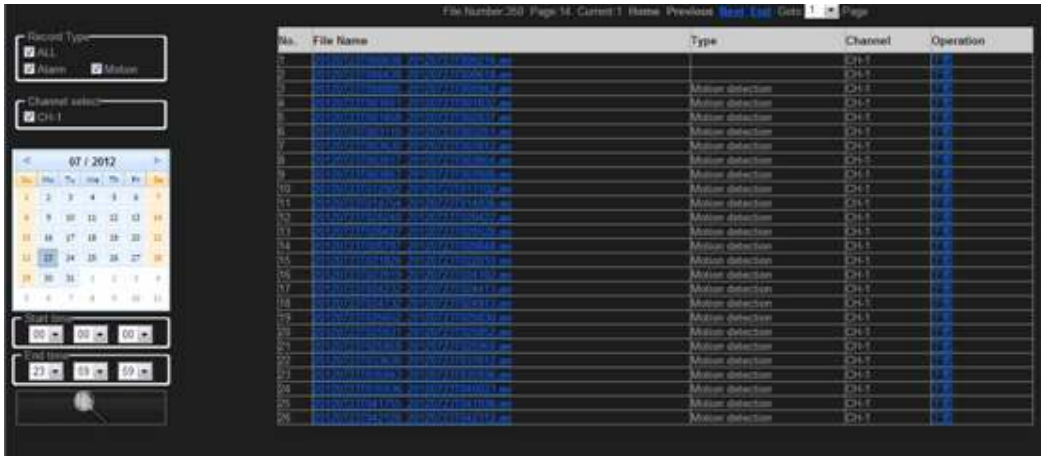


View picture on SD card: enter into the SD card picture page after clicking; firstly select time and then click the image search so as to search the pictures satisfying with the requirements in the SD card; click the picture to preview in a zooming manner; click the right key to store the storable picture.

Configuration export and configuration import: click the configuration export to store the current configuration of the video camera in the computer by using the name of ui.conf document; click the configuration import to load the configuration file and apply the setting in the configuration file to the video camera.

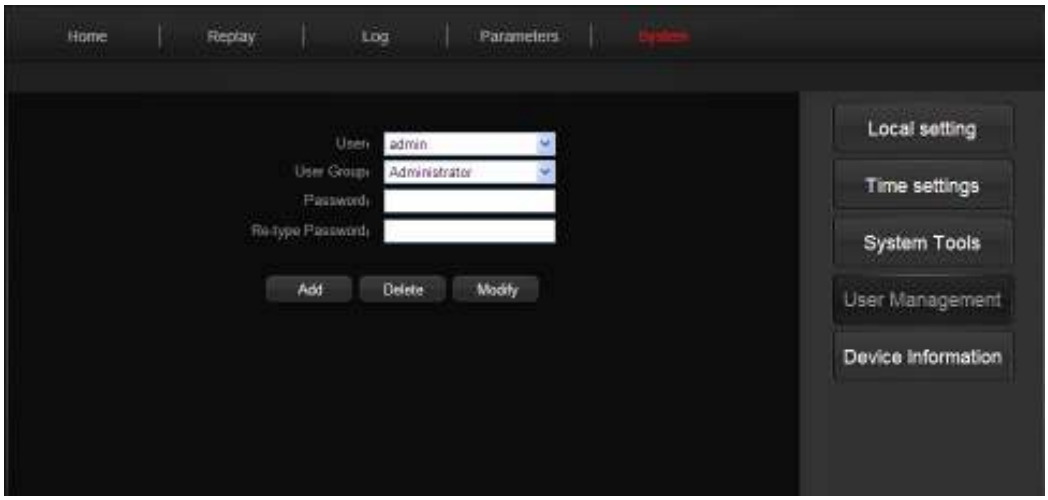
System update: in the system update page, you can select to update the file and update the version of the fixed piece of the video camera; and for the detailed use method, please read the document "updating steps of the video camera" in the "Frequently Asked Questions" file.

View Video Files on SD-card: in the page, you can view and download the video files in the SD card; firstly select the time and then click the search icon; the video file list satisfying with the requirements in the SD card will occur in the right side; click the "Download" button to download the video files from the SD card to the computer.



2.5.4 User management

In the user management page, you can amend the user password and create a new user, but cannot change the manager account admin; and the new user is a normal user.



2.5.5 Device information

In the device information page, you can see the video camera manufacturer, the serial number, the type number and the state of the SD card; after the SD card is inserted into the video camera, you can see the size of the SD card in the information-capacity of the SD card; and if the SD card is formatted, the rest volume will be displayed.